

36	2	(fuel near injector) and ptfe and heat-resistant	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:20
37	53	fuel and ptfe and heat-resistant	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:21
38	75	engine and ptfe and heat-resistant	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:21
39	3	engine and (ptfe near heat-resistant)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:21
40	21	engine and (ptfe same heat-resistant)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:26
41	7	(engine and (ptfe same heat-resistant)) and fluorine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:38
42	4	(fuel near injector) and (coating near orifice)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:42
43	1	((fuel near injector) and (coating near orifice)) and ptfe	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:39
44	4	(fuel near injector) and ((coating or coated) near orifice)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:42
45	190311	((fuel near injector) and ((coating or coated) near orifice)) and ptfe or fluorine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:42
46	1	((fuel near injector) and ((coating or coated) near orifice)) and (ptfe or fluorine)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:45
47	1	(((fuel near injector) and ((coating or coated) near orifice)) and (ptfe or fluorine)) and coating and (orifice or orifices)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:45

18	0	(fuel near injector) and fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:44
19	1	(fuel near injector) and (fluorine same silicone)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:44
20	2709	fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:45
21	13	fluorosilicate and coating and engine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:50
22	224	coating same fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:50
23	7	(coating same fluorosilicate) and (engine or fuel)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:58
24	6	fluorosilicate and engine and fuel	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:04
25	1	((fuel near injection) and fluorine) and ptfe and heat	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:06
26	534	ptfe same heat-resistant	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:07
27	22	ptfe near heat-resistant	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:07
28	12	(ptfe same heat-resistant) and fuel	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:08
29	124	(ptfe same heat-resistant) and fluorine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:09
30	9	((ptfe same heat-resistant) and fluorine) and (fuel or engine)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:16
31	26359	fuel near injector	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:16
32	0	(fuel near injector) and ((coating or coated) same ptfe same heat-resistant)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:19
33	16	(fuel near injector) and ((coating or coated) same ptfe)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:17
34	9	((fuel near injector) and ((coating or coated) same ptfe)) and heat	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:17
35	1	(fuel near injector) and (ptfe same heat-resistant)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 09:20

L Number	Hits	Search Text	DB	Time stamp
1	0	seat near fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:30
2	2	(disc or disk or plate) near fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:29
3	0	((disc or disk or plate) near fluorosilicate) and fuel	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:29
4	0	(outlet or orifice) near fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:30
5	3	(outlet or orifice) same fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:30
6	0	((outlet or orifice) same fluorosilicate) and fuel	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:30
7	0	(fuel near injector) and fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:30
8	0	(fuel near injection) and fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:34
9	122	fuel and fluorosilicate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:31
10	0	(fuel and fluorosilicate) and seat	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:31
11	14	(fuel and fluorosilicate) and valve	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:31
13	0	(fuel near injection) and (outlet near fluorine)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:34
14	0	(fuel near injection) and (orifice near fluorine)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:35
15	0	(fuel near injection) and (plate near fluorine)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:35
16	0	(fuel near injection) and (disk near fluorine)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:35
12	130	(fuel near injection) and fluorine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:35
17	52	(fuel near injector) and fluorine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 08:43

DERWENT-ACC-NO: 1981-53014D

DERWENT-WEEK: 198129

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Refractory coating for internal
combustion engine
chamber - contg. sodium silicate and
fluosilicate, lead,
cerium, zinc and cobalt oxide(s),
graphite and asbestos

INVENTOR: FEDOROVICH, V V; POLONSKAYA, L I ; RYBALKO, V T

PATENT-ASSIGNEE: SEVAST EQUIP CONS [SEVAR]

PRIORITY-DATA: 1975SU-2325052 (December 23, 1975)

PATENT-FAMILY:

PUB-NO	PUB-DATE	
LANGUAGE	MAIN-IPC	
SU 775364 B	November 3, 1980	N/A
000	N/A	

INT-CL (IPC): F02F003/10

ABSTRACTED-PUB-NO: SU 775364B

BASIC-ABSTRACT:

The combustion chamber of an internal combustion engine is treated to improve the heat resistance of the surface by application of a coating comprising sodium silicate 52-29, cerium oxide 2-9.6, red lead 6.1-9.6, sodium fluosilicate 2-7, cobalt oxide 0.4-1.5, argentous graphite 2-4.8, and zinc oxide 2-7.2% wt., with chrysotile asbestos to 100% wt. The fluosilicate assists in coagulating the silicate, and promotes drying, the cerium oxide improves hardness, the cobalt oxide increases adhesion, the red lead and graphite

improve elasticity, and the zinc oxide raises the temp. resistance by forming a refractory cement with the sodium silicate. The previous compsn., without the zinc oxide, was not satisfactory.

The dry components are mixed in the required ratio and then mixed with the sodium silicate soln. The metal surface is cleaned and degreased, and then the compsn. applied by brush or spray in 4-6 layers, with an optimum overall thickness of 0.3-0.4 mm. Bul. 40/30.10.80.

TITLE-TERMS: REFRACTORY COATING INTERNAL COMBUST ENGINE CHAMBER CONTAIN SODIUM SILICATE FLUOROSILICATE LEAD CERIUM ZINC COBALT OXIDE GRAPHITE ASBESTOS

DERWENT-CLASS: L02 Q52

CPI-CODES: L02-D11; L02-E03; L02-J01E;